

REMARKS/ARGUMENTS

Reexamination of the captioned application is respectfully requested.

A. SUMMARY OF THIS AMENDMENT

By the current amendment, Applicants basically:

1. Amend independent claims 1 and 21.
2. Add new dependent claims 28 – 31.

B. AMENDMENTS TO THE CLAIMS AND THE NEW CLAIMS

Independent claims 1 and 21 have been amended by this Supplemental Amendment to delete reference (incorrectly introduced by the June 17, 2005 Amendment) to a two pole filter. The independent claims are *not* to be limited by a two pole filter.

Rather, the two pole filter of Fig. 12 serves to provide but one example illustration of another feature (added by this Supplemental Amendment) of claims 1 and 21. That another feature is that the first resonator and the second resonator work as a single resonator.

For support of the instant amendment to independent claim 1 and 21, consider the fact that US Patent 6,463,308 with three resonators provides a three-pole filter. By contrast, the Fig. 12 embodiment of present application with four resonators (two tunable and the other two not tunable) does not realize a four-pole filter, but rather a two-pole filter, i.e., each resonator pair acts as a single resonator. It is apparent from Fig. 12 that two tunable resonators (one in each pair) act as reactances at the frequency of interest. From Fig. 12, where there are four resonators operating as two, or that two resonators (one tunable, the other not) operating as a single resonator, the person skilled in the art understands that one of the resonators (i.e., the tunable resonator) has to operate as a

reactance. The original disclosure also makes it very clear that there may be any number of such resonator pairs, each having one tunable and one non-tunable resonator.

The pair of resonators works as a single resonator, since within the range of interest one of the resonators contributes as a reactance. An arbitrary number of such tunable resonators/arrangements (Fig. 4) may be used to make filters of an arbitrary order N.

New claims 28 and 30, dependent upon independent claims 1 and 21, respectively, do recite (in dependent claims) that the resonator provides a two pole filter.

New claims 29 and 31, dependent upon independent claims 1 and 21, respectively, recite that one of the first resonator and the second resonator contributes as a reactance.

Support for the new claim is explained in the preceding remarks and is elsewhere manifest through the specification.

C. MISCELLANEOUS

In view of the foregoing and other considerations, all claims are deemed in condition for allowance. A formal indication of allowability is earnestly solicited.

The Commissioner is authorized to charge the undersigned's deposit account #14-1140 in whatever amount is necessary for entry of these papers and the continued pendency of the captioned application.

Should the Examiner feel that an interview with the undersigned would facilitate allowance of this application, the Examiner is encouraged to contact the undersigned.

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Atty Dkt: 4127-13
Art Unit: 2817

Respectfully submitted,
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